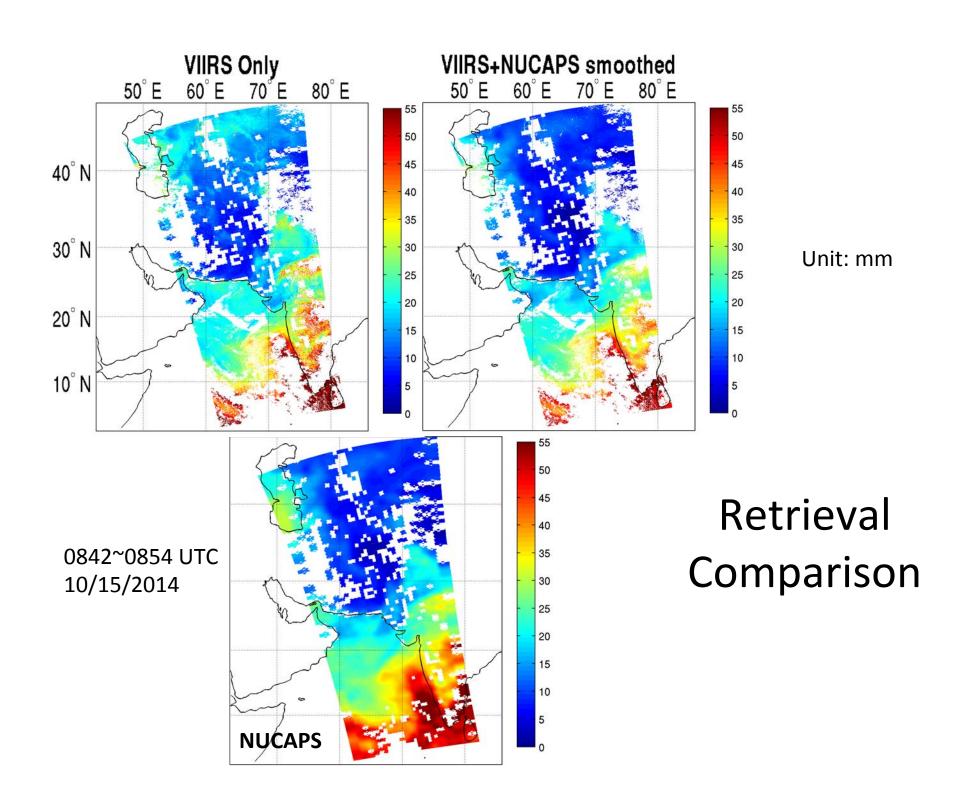
VIIRS TPW Status report

Eva Borbas (PI), Zhenglong Li, Paul Menzel, and Laura Dobor

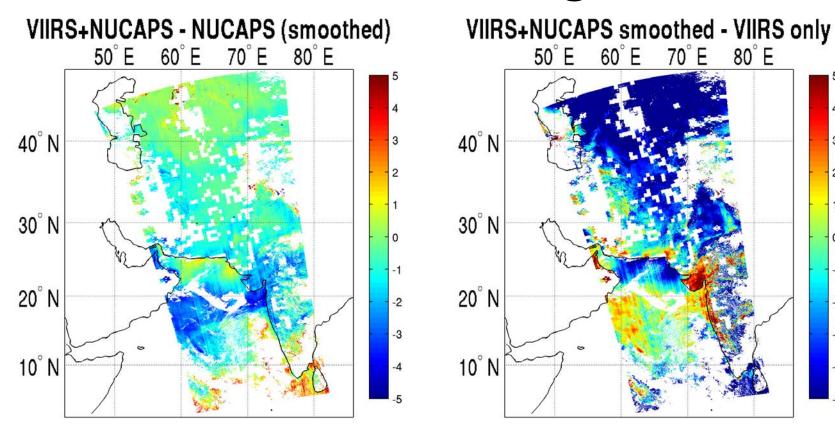
CIMSS/SSEC
University of Wisconsin-Madison

Overview

- Validation for 2012-2015 with TPW from groundbased GPS network, MWR, and RAOB (poster)
- VIIRS TPW L2 algorithm/products based on 6 min granules
 - Hole filling
 - Smoothing
 - Algorithm delivered
- Granule and one day global validation using MYD07
- Ready for comprehensive validation
- Working on L3 algorithm as well as ATBD



Difference Images



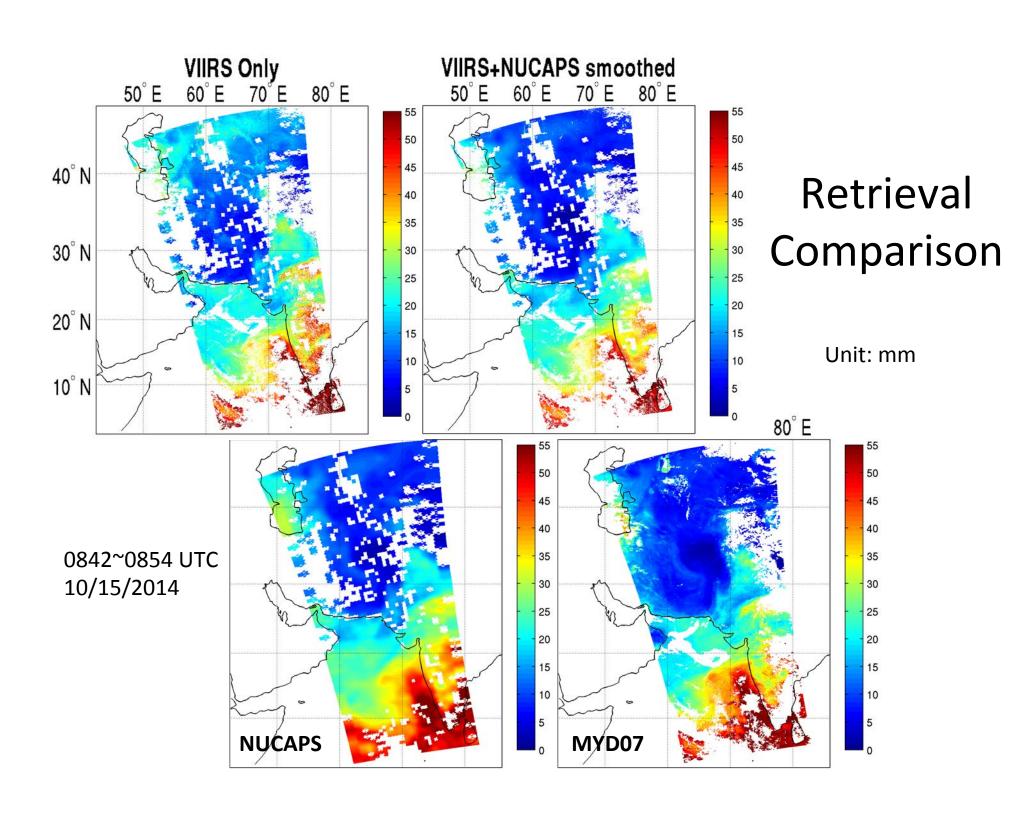
2

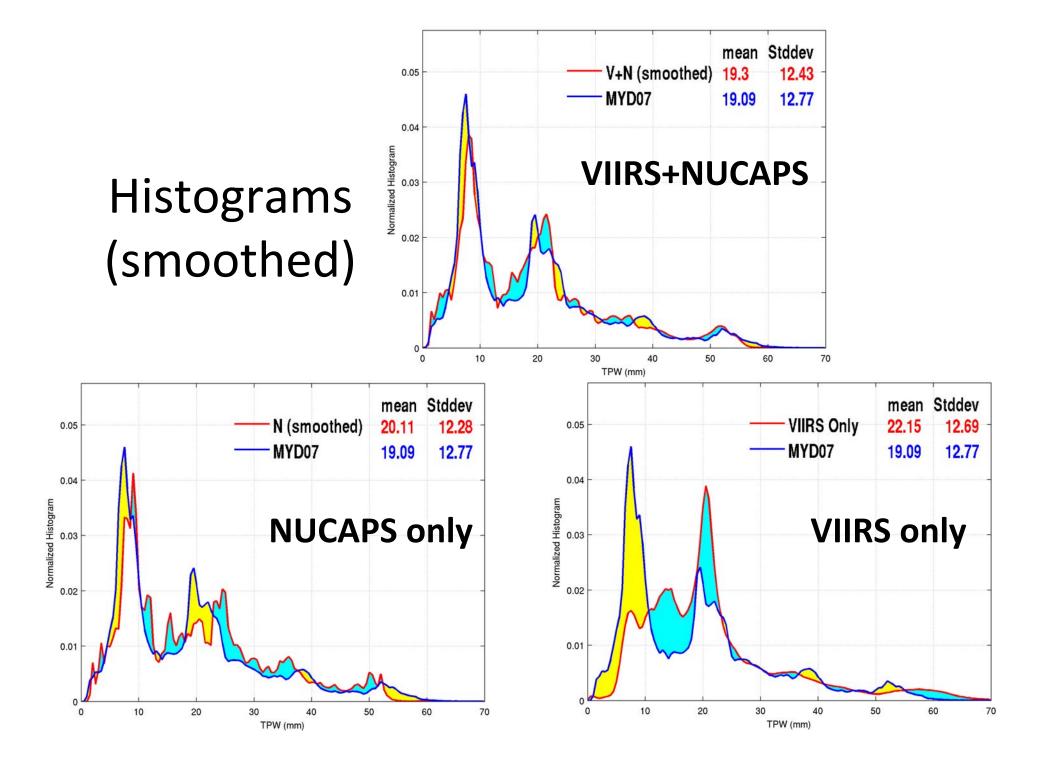
-1

-2

-3

Unit: mm





Summary

- L2 algorithm/products based on 6 min granules
- NUCAPS holes filled and smoothed;
- VIIRS+NUCAPS adjusts both NUCAPS alone and VIIRS alone, information from both is a better product
- VIIRS+NUCAPS less affected by cloud and surface features
- Apply STG software to build the global daily, and monthly VIIRS/NUCAPS L3 gridded TPW products
- Compare VIIRS/NUCAPS TPW L3 global products to MOD07 L3, AIRS L3, and SSMI
- Finalize ATBDs